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P O Box 1450 Alexandria, Virgima 22313-1450

# NOTICE OF ALLOWANCE AND FEE(S) DUE

27799 7590 69/22/2008 COHEN, PONTANI, LIEBERMAN & PAVANE LLP 551 FIFTH AVENUE SUITE 1210

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,097	01/20/2004	Berthold Hahn	5367-252PCON.	4556
TITLE OF INVENTION: N	ÆTHOD FOR FABRICAT	ING A LIGHT-EMITTING DEVICE BASED ON A GALLI	UM NITRIDE-BASED CO	MPOUND

SEMICONDUCTOR, AND LIGHT-EMITTING DEVICE BASED ON A GALLIUM NITRIDE-BASED COMPOUND SEMICONDUCTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

NEW YORK NY 10176

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off	or tran	nsmitting the ISSU Patent, advance on in Block 1, by (a	TE FEE and PUBLI ders and notification of specifying a new	CATI n of n	ON FEE (if requi naintenance fees w pondence address;	red). I ill be and/or	Blocks 1 through 5 st mailed to the current (b) indicating a sepa	hould be completed wher correspondence address a rate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: the Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
551 FIFTH AVE SUITE 1210			& PAVANE I	LLP	Lbe	Cer	tificate	of Mailing or Trans	
NEW YORK, N	Y 10176								(Depositor's name)
									(Signature)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVE	NTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/762,097	01/20/2004			Berthold Hahn			5.	367-252PCON.	4556
TITLE OF INVENTION SEMICONDUCTOR, AN									POUND .
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE	DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300		\$0		\$1740	12/22/2008
EXAM	INER		ART UNIT	CLASS-SUBCLAS	s				
TRINH, MICH	IAEL MANH		2822	438-046000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ess an assignee is ident i in 37 CFR 3.11. Comp	" Indica ed. Usa A TO B	ation form e of a Customer E PRINTED ON	or agents OR, alte (2) the name of a registered attorne 2 registered paten listed, no name w FHE PATENT (print	single y or a st attor ill be or typ the pa	e firm (having as a agent) and the name meys or agents. If a printed.  e)  atent. If an assignassignment.	memb es of u no nam ee is id	er a 2p to p to e is 3	ocument has been filed fo
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□ Publication Fee (No small entity discount permitted) □ Advance Order - # of Copies □ Payment by credit card. Form PTO-2038 □ The Director is hereby authorized to charge overpayment, to Deposit Account Number					ge the	required fee(s), any de	ficiency, or credit any n extra copy of this form).		
5. Change in Entity Stat	us (from status indicate s SMALL ENTITY state			☐ b. Applicant is n	o lon	ger claiming SMAI	LEN	FITY status. See 37 Cl	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req ecords of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	d from anyone other to Office.	than t	he applicant; a regi	stered a	attorney or agent; or th	e assignee or other party i
Authorized Signature						Date			
Typed or printed name						Registration N			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C. USPT rden, sl O NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR	on is required to obtai 1.14. This collection depending upon the e Chief Information C COMPLETED FORM	in or r is est indiv Office AS TO	etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and D'THIS ADDRESS	ne publ ninutes mment Traden	tic which is to file (and to complete, including s on the amount of tire ark Office, U.S. Deptor of the Commissioner of the Co	by the USPTO to process g gathering, preparing, an- ne you require to complet artment of Commerce, P.O. for Patents, P.O. Box 1450

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DATE MAILED: 09/22/2008

APPLICATION NO.	FILING DATE		FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.		
10/762,097	01/20/2004		Berthold Hahn	5367-252PCON.	4556		
27799	7590	09/22/2008		EXAM	EXAMINER		
COHEN, PON	TANI, L	JEBERMAN &	TRINH, MICHAEL MANH				
551 FIFTH AVENUE				ART UNIT	PAPER NUMBER		
SUITE 1210	** ***		2822				
NEW YORK, N	Y 10176		DARW 344 F FID. 00/22/2000				

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

### Application No. Applicant(s) 10/762.097 HAHN ET AL. Notice of Allowability Examiner Art Unit Michael Trinh 2822 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Amendment and RCE filed 9/2/2008. The allowed claim(s) is/are 1,2,4-17,34 and 35. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/Michael Trinh/ Primary Examiner, Art Unit 2822 Application/Control Number: 10/762,097

Art Unit: 2822

#### DETAILED ACTION

\*\*\* This office action is in response to Applicant's Amendment and RCE filed September 02, 2008. Claims 1-2,4-17,34-35 are pending. Claims 3,18-33 were canceled.

#### Allowable Subject Matter

- Claims 1-2,4-17,34-35 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

Applicant's amendment filed September 02, 2008 and convincing remarks of record have overcome the rejections in the last office action. The references of record including Kawaguchi et al (The article title "The formation of crystalline defects and crystal growth mechanism in In<sub>x</sub>Ga<sub>1-x</sub>N/GaN heterostructure grown by metalorganic vapor phase epitaxy", 1998, pp 24-26), Watanabe et al (6,555,846), Chen (Article title of "Pit formation in GaInN quantum wells", 1998), etc., do not fairly anticipatively disclose each and every aspect of the claimed method for fabricating a light emitting device, or fairly make a prima facie obvious case of the claimed method, such as in base claim 1, the inclusion of forming at least one compound semiconductor layer based on gallium nitride and being an active layer or a part of an active layer sequence, the at least one compound semiconductor layer being a light-emitting layer; and setting growth parameters used during production of the compound semiconductor layer such that, at least in some cases in a vicinity of dislocations in the compound semiconductor layer, regions are produced in the compound semiconductor layer having a lower thickness than remaining regions of the compound semiconductor layer; wherein said regions with the lower thickness are formed to be less than half as thick as the remaining regions of the compound semiconductor layer in the final structure of the light-emitting device; and wherein the light-emitting device is Indium free, and the light-emitting layer comprises  $Al_vGa_{1-v}N$ , where  $0 \le y \le 1$ .

#### \*\*\*\*\*\*\*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael M. Trinh whose telephone number is (571) 272-1847. The examiner can normally be reached on M-F: 9.00 Am to 5:30 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on (571) 272-2429. The fax phone number is (571) 273-8300

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Art Unit: 2822

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Oacs-18

/Michael Trinh/ Primary Examiner, Art Unit 2822